

15 February 1967

MEMO FOR: Chief, Collateral Support Division

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FROM : [REDACTED]

SUBJECT : Trip Report of [REDACTED] Multi-Sensor Committee Briefing  
13 February 1967

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[REDACTED] attended the Multi-Sensor Committee

briefing given by [REDACTED]

[REDACTED] on 13 February 1967 vice [REDACTED]

The presentation concerned itself with what [REDACTED] is

and has been doing in the field of unconventional imagery -- [REDACTED]

special films and cameras, and [REDACTED]

[REDACTED] specializes in research and development and operations re-

lating to data collection and reduction systems for reconnaissance, mapping,  
geodesy, intelligence and associated activities. They also design and  
develop prototypes for a variety of complex data reduction equipment of which

[REDACTED] is the manufacturer, and conduct multi-sensor imagery interpretation  
and analysis. Facilities are located at [REDACTED]

[REDACTED] has been working on the evaluation and interpretation of  
multi-sensor imagery since 1957. Much of their efforts has resulted in  
the compilation of numerous interpretation manuals and keys, extensive  
ground truth collection to support evaluation of multi-sensor imagery,

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testing of the interpreter's ability to read-out the various types of imagery without the aid of collateral information, compilation of matrices of the detection/identification capabilities at various resolutions for SLAR and IR, investigation of the interpretation of coherent SLAR imagery of ship targets, and many other studies.

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Under contract to [REDACTED] a study is currently being made by [REDACTED] to provide training, mensuration, and imagery interpretation support to provide for an optimum unconventional sensor imagery exploitation capability for the customer. This includes various operational

[REDACTED] Some 25X1D

of the tasks and results are to:

Evaluate training requirements and existing courses and material, and formulate overall training implementation plan.

Analyze all mesuration tasks, existing capabilities, and implement new techniques and processes for customer use.

Provide support services in order to optimally exploit sensor imagery.

This program is current and the first year results are expected by mid 1967.

A photographic experiments study for lunar orbital survey under NASA's APOLLO program has been made in which the objectives were to determine the configurations and performance capabilities of camera systems and a radar

system in relation to orbital, space craft, data return, and data reduction constraints. An interesting phenomenon noted from this study was that there is no diffusion of light by the moon's surface, but rather that the light is reflected back in the exact direction of the light source. They have used this information to establish the best orbital parameters for the lunar ORBITER series of satellites which are engaged in photographing the surface of the moon to determine the desired landing sites for the APOLLO moon craft.

Another interesting project is currently being worked under contract to GEMRADA (Geodesy & Intelligence Mapping R & D Agency, Corps of Engineers, Fort Belvoir) to produce map and map substitutes from [REDACTED] imagery to map accuracy specifications at the 1:250,000 scale in Panama from the Darien Province to the Colombian border which is an area of perennial cloud-cover. We had the opportunity to see the first can of the original negatives which had just been received and this project looks very promising. [REDACTED]

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The above references are representative of the diverse field of interests this company holds in regard to the evaluation and exploitation of unconventional systems imagery.

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2 March 1967

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Chief, Interpretation and Analysis Section  
Reconnaissance Intelligence Data Handling Branch  
Intelligence and Information Processing Division  
Rome Air Development Command  
Griffiss Air Force Base, New York

Dear Al,

The Multisensor Working Group, as well as other Center personnel, very much appreciated your briefing on methods being used to solve Vietnam reconnaissance problems. Several of those who attended our session have praised your flow analyses and expressed interest in relating your work to their own efforts.

Please accept our thanks for a most valuable contribution to our close working relations

Sincerely,

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Chairman, Multisensor Working Group

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TS/8/67  
3 March 1967

MEMORANDUM FOR: Chairman, Multisensor Working Group, NPIC  
THROUGH: Chief, Technical Intelligence Division, NPIC  
SUBJECT: Resume' of Critiques Presented by the MSWG  
on the [REDACTED] Task III Study

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1. Critiques on the Task III Study by [REDACTED] have been received from the MSWG members representing IAS, PAG, DIA, PD and TID. All reports were reviewed to reproduce the following resume' which will be sent along with the original reports to [REDACTED] the NPIC monitor of the [REDACTED] contract.

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2. The consensus of those members of the MSWG who turned in critiques appears to be that the Task III Study is a good basic compilation of known information on multisensor equipment up to the secret level of classification. It can be used as a standard reference work and as an adjunct to updating information learned in the basic [REDACTED] Courses available to the NPIC personnel. It can be used as a research document for system evaluators and planners who must anticipate potential workloads, new equipment, and levels of effort that will become necessary, should the product of those systems be made available to the NPIC. There was some feeling that the report is too technically oriented for the average PI, and limited (through classification) to systems that may not be exploited by the NPIC. However the greater majority of the critiques considered the Task III Study a useful historical reference that would be of value to technicians and PIs having a working knowledge of multisensors.

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Distribution:

Orig. - Addressee

1 - Asst. for TD (Attn [REDACTED])

2 - TID

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